Revetment 21 - Excavation with Offsite Disposal

Capital Costs

Excavation with Offbase Disposal	\$124,346
A. Excavation of Sediments	\$2,664
Volume of Sediments (cubic yards) Excavation Costs per Cubic Yard Mobilization/Demobilization of Equipment	505 \$2.31 \$1,500
B. Post Excavation Confirmation Sampling Program	\$3,928
Number of Confirmation Samples Number of QA Samples Sampling Cost per Sample Location (labor and equipment) Data Validation Labor per Sample Sample Analysis (per sample, includes 15% for CLP) Total Metals 6010/7000 \$240 PAHs 8270 \$210 TPH as Gasoline/JP-4 8015M \$105 TPH as Diesel 8015M \$115	3 1 \$208 \$55 \$771
C. Offbase Disposal to a Class II Hazardous Waste Landfill	\$113,265
Volume of Soil25% swell factor (cubic yards) Transportation and Disposal Costs per Cubic Yard Waste Profile Fee (One time cost) D. Grading of Excavation Site	631 \$179 \$300 \$4,489
Volume of Soil25% swell factor (cubic yards) Grading Cost per Cubic Yard Mobilization/Demobilization of Equipment	631 \$3.58 \$2,230
SUBTOTAL CAPITAL COSTS 15% BID CONTINGENCY 15% SCOPE CONTINGENCY 5% PERMITTING COSTS TOTAL CAPITAL COSTS	\$124,346 \$18,652 \$18,652 \$6,217 \$167,867

O&M Costs

No O&M costs are associated with this alternative.

Revetment 21 - Excavation with Onsite Disposal

Capital Costs

Excavation with Onbase Disposal	\$12,212
A. Excavation of Sediments	\$2,664
Volume of Sediments (cubic yards) Excavation Costs per Cubic Yard Mobilization/Demobilization of Equipment	505 \$2.31 \$1,500
B. Post Excavation Confirmation Sampling Program	\$3,928
Number of Confirmation Samples Number of QA Samples Sampling Cost per Sample Location (labor and equipment) Data Validation Labor per Sample Sample Analysis (per sample, includes 15% for CLP) Total Metals 6010/7000 \$240 PAHs 8270 \$210 TPH as Gasoline/JP-4 8015M \$105 TPH as Diesel 8015M \$115	3 1 \$208 \$55 \$771
C. Onbase Disposal	\$1,131
Volume of Soil25% swell factor (cubic yards) Transportation and Disposal Costs per Cubic Yard Mobilization/Demobilization of Equipment	631 \$1.32 \$300
D. Grading of Excavation Site	\$4,489
Volume of Soil25% swell factor (cubic yards) Grading Cost per Cubic Yard Mobilization/Demobilization of Equipment	631 \$3.58 \$2,230
SUBTOTAL CAPITAL COSTS 15% BID CONTINGENCY 15% SCOPE CONTINGENCY 5% PERMITTING COSTS TOTAL CAPITAL COSTS	\$12,212 \$1,832 \$1,832 \$611 \$16,486

O&M Costs

No O&M costs are associated with this alternative.

Revetment 22 - Excavation with Offsite Disposal

Capital Costs

Excavation with Offbase Disposal	\$116,201
A. Excavation of Sediments	\$2,563
Volume of Sediments (cubic yards) Excavation Costs per Cubic Yard Mobilization/Demobilization of Equipment	461 \$2.31 \$1,500
B. Post Excavation Confirmation Sampling Program	\$3,928
Number of Confirmation Samples Number of QA Samples Sampling Cost per Sample Location (labor and equipment) Data Validation Labor per Sample Sample Analysis (per sample, includes 15% for CLP) PAHs 8270 \$210 TPH as Gasoline/JP-4 8015M \$105 TPH as Diesel 8015M \$115 Total Metals 6010/7000 \$240	
C. Offbase Disposal to a Class II Hazardous Waste Landfill	\$103,418
Volume of Soil25% swell factor (cubic yards) Transportation and Disposal Costs per Cubic Yard Waste Profile Fee (One time cost)	576 \$179 \$300
D. Grading of Excavation Site	\$4,292
Volume of Soil25% swell factor (cubic yards) Grading Cost per Cubic Yard Mobilization/Demobilization of Equipment	576 \$3.58 \$2,230
E. Asphalt/Concrete Removal	\$2,000
Assume volume of concrete (cubic yards) = Excavation costs per cubic yard = Mobilization/Demobilization of equipment =	1,500 \$0.80 \$800
SUBTOTAL CAPITAL COSTS 15% BID CONTINGENCY 15% SCOPE CONTINGENCY 5% PERMITTING COSTS TOTAL CAPITAL COSTS	\$116,201 \$17,430 \$17,430 \$5,810 \$156,872

O&M Costs

No O&M costs are associated with this alternative.

Revetment 22 - Excavation with Onsite Disposal

Capital Costs

Excavation with Onbase Disposal	\$13,841
A. Excavation of Sediments	\$2,563
Volume of Sediments (cubic yards) Excavation Costs per Cubic Yard Mobilization/Demobilization of Equipment	461 \$2.31 \$1,500
B. Post Excavation Confirmation Sampling Program	\$3,928
Number of Confirmation Samples Number of QA Samples Sampling Cost per Sample Location (labor and equipment) Data Validation Labor per Sample Sample Analysis (per sample, includes 15% for CLP) PAHS 8270 PAHS 8270 TPH as Gasoline/JP-4 8015M TPH as Diesel 8015M S105 TOtal Metals 6010/7000 \$240	3 1 \$208 \$55 \$771
C. Onbase Disposal	\$1,058
Volume of Soil25% swell factor (cubic yards) Transportation and Disposal Costs per Cubic Yard Mobilization/Demobilization of Equipment	576 \$1.32 \$300
D. Grading of Excavation Site	\$4,292
Volume of Soil25% swell factor (cubic yards) Grading Cost per Cubic Yard Mobilization/Demobilization of Equipment	576 \$3.58 \$2,230
E. Asphalt/Concrete Removal	\$2,000
Assume volume of concrete (cubic yards) = Excavation costs per cubic yard = Mobilization/Demobilization of equipment =	1,500 \$0.80 \$800
SUBTOTAL CAPITAL COSTS 15% BID CONTINGENCY 15% SCOPE CONTINGENCY 5% PERMITTING COSTS TOTAL CAPITAL COSTS	\$13,841 \$2,076 \$2,076 \$692 \$18,686

O&M Costs

No O&M costs are associated with this alternative.

Revetment 23 - Excavation with Offsite Disposal

Capital Costs

Excavation with Offbase Disposal	•	\$168,100
A. Excavation of Sediments		\$3,257
Volume of Sediments (cubic yards) Excavation Costs per Cubic Yard Mobilization/Demobilization of Equipment		762 \$2.31 \$1,500
B. Post Excavation Verification Sampling Program		\$1,656
Total Excavated Area (Acres) Number of Verification Samples Number of QA Samples Sampling Cost per Sample Location (labor and equipment) Data Validation Labor per Sample Sample Analysis (per sample, includes 15% for CLP) Total Metals 6010/7000	\$240	0.47 5 1 \$0 \$0 \$276
C. Offbase Disposal to a Class II Hazardous Waste Landfill	9	\$157,545
Volume of Soil25% swell factor (cubic yards) Transportation and Disposal Costs per Cubic Yard Waste Profile Fee (One time cost)		953 \$165 \$300
D. Grading of Excavation Site		\$5,642
Volume of Soil25% swell factor (cubic yards) Grading Cost per Cubic Yard Mobilization/Demobilization of Equipment		953 \$3.58 \$2,230
SUBTOTAL CAPITAL 15% BID CONTINGEN 15% SCOPE CONTIN 5% PERMITTING COS TOTAL CAPITAL COS	ICY GENCY STS	\$168,100 \$25,215 \$25,215 \$8,405 \$226,934

O&M Costs

No O&M costs are associated with this alternative.

Revetment 23 - Excavation with Onsite Disposal

Capital Costs

Excavation with Onbase Disposal	\$12,109
A. Excavation of Sediments	\$3,257
Volume of Sediments (cubic yards) Excavation Costs per Cubic Yard Mobilization/Demobilization of Equipment	762 \$2.31 \$1,500
B. Post Excavation Verification Sampling Program	\$1,656
Total Excavated Area (Acres) Number of Verification Samples Number of QA Samples Sampling Cost per Sample Location (labor and equipment) Data Validation Labor per Sample Sample Analysis (per sample, includes 15% for CLP) Total Metals 6010/7000 \$240	0.47 5 1 \$0 \$0 \$276
C. Onbase Disposal	\$1,555
Volume of Soil25% swell factor (cubic yards) Transportation and Disposal Costs per Cubic Yard Mobilization/Demobilization of Equipment	953 \$1.32 \$300
D. Grading of Excavation Site	\$5,642
Volume of Soil25% swell factor (cubic yards) Grading Cost per Cubic Yard Mobilization/Demobilization of Equipment	953 \$3.58 \$2,230
SUBTOTAL CAPITAL COSTS 15% BID CONTINGENCY 15% SCOPE CONTINGENCY 5% PERMITTING COSTS TOTAL CAPITAL COSTS	\$12,109 \$1,816 \$1,816 \$605 \$16,347

O&M Costs

No O&M costs are associated with this alternative.

Revetment 25 - Excavation with Offsite Disposal

Capital Costs

Excavation with Offbase Disposal	\$121,757
A. Excavation of Sediments	\$2,632
Volume of Sediments (cubic yards) Excavation Costs per Cubic Yard Mobilization/Demobilization of Equipment	491 \$2.31 \$1,500
B. Post Excavation Confirmation Sampling Program	\$2,476
Number of Confirmation Samples Number of QA Samples Sampling Cost per Sample Location (labor and equipment) Data Validation Labor per Sample Sample Analysis (per sample, includes 15% for CLP) Total Metals 6010/7000 \$240 TPH as Diesel 8015M \$115	3 1 \$208 \$55 \$408
C. Offbase Disposal to a Class II Hazardous Waste Landfill	\$110,221
Volume of Soil25% swell factor (cubic yards) Transportation and Disposal Costs per Cubic Yard Waste Profile Fee (One time cost) D. Grading of Excavation Site Volume of Soil25% swell factor (cubic yards) Grading Cost per Cubic Yard Mobilization/Demobilization of Equipment E. Asphalt/Concrete Removal Assume volume of concrete (cubic yards) = Excavation costs per cubic yards =	614 \$179 \$300 \$4,428 614 \$3.58 \$2,230 \$2,000 1,500 \$0.80
Excavation costs per cubic yard = Mobilization/Demobilization of equipment =	\$0.80 \$800
SUBTOTAL CAPITAL COSTS 15% BID CONTINGENCY 15% SCOPE CONTINGENCY 5% PERMITTING COSTS TOTAL CAPITAL COSTS	\$121,757 \$18,264 \$18,264 \$6,088 \$164,373

O&M Costs

No O&M costs are associated with this alternative.

Revetment 25 - Excavation with Onsite Disposal

Capital Costs

Excavation with Onbase Disposal	\$12,645
A. Excavation of Sediments	\$2,632
Volume of Sediments (cubic yards) Excavation Costs per Cubic Yard Mobilization/Demobilization of Equipment	491 \$2.31 \$1,500
B. Post Excavation Confirmation Sampling Program	\$2,476
Number of Confirmation Samples Number of QA Samples Sampling Cost per Sample Location (labor and equipment) Data Validation Labor per Sample Sample Analysis (per sample, includes 15% for CLP) Total Metals 6010/7000 \$240 TPH as Diesel 8015M \$115	3 1 \$208 \$55 \$408
C. Onbase Disposal	\$1,108
Volume of Soil25% swell factor (cubic yards) Transportation and Disposal Costs per Cubic Yard Mobilization/Demobilization of Equipment	614 \$1.32 \$300
D. Grading of Excavation Site	\$4,428
Volume of Soil25% swell factor (cubic yards) Grading Cost per Cubic Yard Mobilization/Demobilization of Equipment	614 \$3.58 \$2,230
E. Asphalt/Concrete Removal	\$2,000
Assume volume of concrete (cubic yards) = Excavation costs per cubic yard = Mobilization/Demobilization of equipment =	1,500 \$0.80 \$800
SUBTOTAL CAPITAL COSTS 15% BID CONTINGENCY 15% SCOPE CONTINGENCY 5% PERMITTING COSTS TOTAL CAPITAL COSTS	\$12,645 \$1,897 \$1,897 \$632 \$17,070

O&M Costs

No O&M costs are associated with this alternative.

Revetment 26 - Excavation with Offsite Disposal

Capital Costs

Excavation with Offbase Disposal	\$116,156
A. Excavation of Sediments	\$2,572
Volume of Sediments (cubic yards) Excavation Costs per Cubic Yard Mobilization/Demobilization of Equipment	465 \$2.31 \$1,500
B. Post Excavation Confirmation Sampling Program	\$2,960
Number of Confirmation Samples Number of QA Samples Sampling Cost per Sample Location (labor and equipment) Data Validation Labor per Sample Sample Analysis (per sample, includes 15% for CLP) Total Metals 6010/7000 \$240 TPH as Gasoline/JP-4 8015M \$105 TPH as Diesel 8015M \$115	3 1 \$208 \$55 \$529
C. Offbase Disposal to a Class II Hazardous Waste Landfill	\$104,314
Volume of Soil25% swell factor (cubic yards) Transportation and Disposal Costs per Cubic Yard Waste Profile Fee (One time cost) D. Grading of Excavation Site Volume of Soil25% swell factor (cubic yards) Grading Cost per Cubic Yard Mobilization/Demobilization of Equipment E. Asphalt/Concrete Removal	581 \$179 \$300 \$4,310 581 \$3.58 \$2,230 \$2,000
Assume volume of concrete (cubic yards) = Excavation costs per cubic yard = Mobilization/Demobilization of equipment =	1,500 \$0.80 \$800
SUBTOTAL CAPITAL COSTS 15% BID CONTINGENCY 15% SCOPE CONTINGENCY 5% PERMITTING COSTS TOTAL CAPITAL COSTS	\$116,156 \$17,423 \$17,423 \$5,808 \$156,810

O&M Costs

No O&M costs are associated with this alternative.

Revetment 26 - Excavation with Onsite Disposal

Capital Costs

Excavation with Onbase Disposal	\$12,907
A. Excavation of Sediments	\$2,572
Volume of Sediments (cubic yards) Excavation Costs per Cubic Yard Mobilization/Demobilization of Equipment	465 \$2.31 \$1,500
B. Post Excavation Confirmation Sampling Program	\$2,960
Number of Confirmation Samples Number of QA Samples Sampling Cost per Sample Location (labor and equipment) Data Validation Labor per Sample Sample Analysis (per sample, includes 15% for CLP) Total Metals 6010/7000 \$240 TPH as Gasoline/JP-4 8015M \$105 TPH as Diesel 8015M \$115	3 1 \$208 \$55 \$529
C. Onbase Disposal	\$1,065
Volume of Soil25% swell factor (cubic yards) Transportation and Disposal Costs per Cubic Yard Mobilization/Demobilization of Equipment	581 \$1.32 \$300
D. Grading of Excavation Site	\$4,310
Volume of Soil25% swell factor (cubic yards) Grading Cost per Cubic Yard Mobilization/Demobilization of Equipment	581 \$3.58 \$2,230
E. Asphalt/Concrete Removal	\$2,000
Assume volume of concrete (cubic yards) = Excavation costs per cubic yard = Mobilization/Demobilization of equipment =	1,500 \$0.80 \$800
SUBTOTAL CAPITAL COSTS 15% BID CONTINGENCY 15% SCOPE CONTINGENCY 5% PERMITTING COSTS TOTAL CAPITAL COSTS	\$12,907 \$1,936 \$1,936 \$645 \$17,424

O&M Costs

No O&M costs are associated with this alternative.